UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,966	03/30/2001	Lev Brouk	ODVFP009	3909

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EXAMINER
TRUONG, LAN DAI T

ART UNIT	PAPER NUMBER
2152	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

PTOL-90A (Rev. 10/06)

	Application No.	Applicant(s)
Office Action Summary	09/820,966	BROUK ET AL.
	Examiner	Art Unit	
	Lan-Dai Thi Truong	2152	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>03</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *30 January 2007*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,3-10 and 17-79* is/are pending in the application.

   4a) Of the above claim(s) *80-83* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,3-10 and 17-79* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *30 March 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a)☐ All   b)☐ Some * c)☐ None of:

   1.☐ Certified copies of the priority documents have been received.

   2.☐ Certified copies of the priority documents have been received in Application No. _____.

   3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

   * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO/SB/08)
   Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date. _____.
5)☐ Notice of Informal Patent Application
6)☐ Other: _____.

DETAILED ACTION

1. This action is response to communications: application, filed on 03/30/2001; amendment filed 01/30/2007. Claims 1, 3-10, 17-79 are pending; claims 1, 32, 35-38, 51-52, 63-64 are amended; claims 2, 11-16 are canceled; claims 80-83 are withdrawn

2. The applicant's arguments filed on 01/30/2007 have fully considered; but are moot in view of the new ground(s) of rejection.

Response to Arguments

4. In response to Applicant's amended claims 1 and 51 with respect to replacing "...features required..." by "...the proper format..." the prior 35 USC § 112, first paragraph rejections are withdrawn

5. In response to Applicant's amended claims 1 and 51 with respect to replacing "applicant-level messages" by "messages", in preamble, the prior 35 USC § 112, second paragraph rejections are withdrawn

6. In response to Applicant's amended claims 1, 32, 51, 52, 63, 64 with respect to replacing "application-level message" by "...message..." the prior 35 USC § 112, first paragraph rejections are withdrawn

Claim rejections-35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section
102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the
subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill
in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the
invention was made.

Claims 1, 3-10, 17-56, 60-70, 74-79 are rejected under 35 U.S.C 103(a) as being un-patentable over Stewart et al. (US 2002/0019797) in view of Ghoneimy et al. (US 2004/0078373)

Regarding to claim 1:

Stewart discloses the invention substantially as claimed, including a method, which can be implemented in a computer hardware or software code for routing messages from one or more sending services to one or more recipient service across a message interchange network, comprising:

Receiving a message from a sending service, said message including a header element and at least one of a body element including one or more documents that a sending service is sending to a recipient service and an attachment including one or more documents that a sending service is sending to a recipient service: (Stewar discloses a message routing system includes a collaboration hub hosting has capable of receiving and sending messages between "trading partners" those share functionality with "sending service and receiving service" as claimed; the message routing system allows the trading partners to create, exchange messages to each others; the sending message includes the routing criteria in the header portion of the sending message: [0030]; [0081]; [0253]; [0023]; [0025]; [0027]-[0028]; [0105])

Determining a route path for delivery for said message to said one or more recipient services, wherein said determining being based on one or more of a routing script defined by a

sending service; a routing script defined by a recipient service, and a routing script defined by an in-transit service, such as that each service is capable of independently effecting said determining of said route path: (in light of the specification, page 5, paragraph [1019]; [0139]; [1040]; [1041], the term "in-transit service," means performing variety of functions such as data transformation, enrichment, cross-reference ID mapping, filtering, credit scoring or the like. Also, in light of the specification ([0066]; [0069]), the term "routing script" means routing instruction included in the message header; in analogous art, in Stewar's collaboration system, each trading partner can create and set filter rules for transmitting messages within trading environment; the sending message also includes "the routing criteria in the header portion of the message" which shares functionality with "routing script" as claimed which enables routing the message to target recipients: figure 5; figure 6; figure 7; [0127]-[0130]; [0170]; [0253]-[0054]; [0056]; [0081]; [0084])

Route path including one or more in-transit services; delivering said message to an in-transit service in said route path, wherein said in-transit service performs an identifiable operation on said message as said message travels from a sending service to a recipient service: ("Publish-side filters / Receiver-side filters" those shares functionality with "in-transit services" as claimed are used by sending trading partner/ or by receiving trading partner in order to be able to route messages the appropriated recipients: [0170]; [0179]; [0270]-[0273]; [0081])

However, Stewar does not explicitly disclose the identifiable operation altering the content of the message to ensure that the message has the proper format for the recipient service

In analogous art, Ghoneimy discloses the workflow engine including adapters acts as a converter supports communications between different type of devices: ([0039]; [0010])

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Ghoneimy's ideas of using adapters acts as a converters supports communications between different type of devices with Stewar's system in order to provide the flexibilities for integration communications system e.g. real-time data format converting supports for quick deployment workflow processes, see (Ghoneimy: abstract)

Regarding to claim 32:

In addition to rejection in claim 1, Stewar - Ghoneimy further discloses an open platform overlaying a public network: (Stewar discloses an open, and scalable software platform for dynamic business-to-business collaboration such as enterprise collaboration server: [0024])

Regarding to claim 63:

In addition to rejection in claim 1, Stewar-Ghoneimy further discloses receiving registration request: (Stewar discloses the collaboration system receiving a registered set of business trading partners: [0027]; [0147])

A directory service: (Ghoneimy discloses Directory Services: [0007]; [0031]-[0032])

Regarding to claim 52:

This claim is rejected for the same rational as rejections for claim 63

Regarding to claim 64:

In addition to rejection in claims 1 and 32, Stewar - Ghoneimy further discloses an interface that enables a plurality of services to post messages to and receive messages from said message routing network: (steward discloses the message routing mechanism for a collaboration system, comprising a collaboration hub hosting a collaboration space capable of receiving and sending messages between participants: abstract; [0081])

At least a portion of said plurality of services providing a menu of data operations that

can he selectively applied to a message traversing said message routing network: (steward

discloses "templates" which shares functionality with menu of data operations thereby

participants can used to define sending messages: [0023]; [0165]; [0262]; [0263])

Regarding claims 3 and 5:

In addition to rejection in claim 1, Stewar - Ghoneimy further discloses Exentisble

Markup language: (Stewar: [0063])

Regarding to claim 4:

In addition to rejection in claim 1, Stewar - Ghoneimy further discloses one or more

documents in said body element and said one or more documents in said attachment can

accommodate any type of data: (Ghoneimy: Fig 14, attachment of many different files)

Regarding to claim 6:

In addition to rejection in claim 4, Stewar - Ghoneimy further discloses text data

(Ghoneimy: Fig 14, attachment of many different files)

Regarding to claim 7:

In addition to rejection in claim 4, Stewar - Ghoneimy further discloses binary data (Fig

14, attachment of many different files)

Regarding to claims 8, 27, 33-38, 40 and 78-79:

Those claims are rejected for the same reasons as rejection to claims 1 and 32

Regarding to claim 10:

Stewar - Ghoneimy discloses a method as discuss in claim 1, which includes receiving

includes receiving said message from a party that sends said message on behalf of a sender

(Ghoneimy discloses the messages are sent to the work flow system first prior to sending by the work flow system to the receiver, see [0035]; [0072])

Regarding to claims 17 and 39:

Stewar - Ghoneimy discloses a method as discuss in claims 1 and 34, which includes recursive ([0085]; [0093])

Regarding to claims 18 and 30, 41-42:

Stewar - Ghoneimy discloses a method as discuss in claims 1 and 43, which includes wherein said determining occurs prior to physical delivery of said message (Ghoneimy: [0085]; [0093], wherein the routing scripts are executed prior to delivery of actual message to the destination)

Regarding to claim 19:

Stewar - Ghoneimy discloses a method as discuss in claim 1, which includes determining occurs dynamically during logical and physical delivery of said message (Ghoneimy: [0085])

Regarding to claim 20:

Stewar - Ghoneimy discloses a method as discuss in claim 1, which includes a routing script defines a procedure that determines an existence of one or more attributes of the message (Ghoneimy: [0088; [0090])

Regarding to claims 21 and 43:

Stewar - Ghoneimy discloses a method as discuss in claims 1 and 34, which includes the message routing method of claim 1, wherein a routing script defines a procedure based on pattern matching (Ghoneimy: [0090])

Regarding to claims 22 and 45-46:

Stewar - Ghoneimy discloses a method as discuss in claims 1 and 34, which includes

wherein a routing script defines a procedure that compares one or more attributes of a message to

a reference value (Ghoneimy: [0090]-[0093])

Regarding to claims 23-25 and 47:

Stewar - Ghoneimy discloses a method as discuss in claims 1 and 45, which includes a

routing rule, said routing rule including a condition and one or more actions (Ghoneimy:

abstract; [0006]; [0089]-[0093])

Regarding to claims 26 and 48:

Stewar - Ghoneimy discloses a method as discuss in claims 25 and 47, which includes

conditions are combined using one or more of an AND, OR, XOR, and NOT operators

(Ghoneimy: [0091])

Regarding to claim 28:

Stewar - Ghoneimy discloses a method as discuss in claim 1, which includes delivering

includes delivering said message upon a polling action by said in-transit service: (Stewar

discloses "Publish-side filters / Receiver-side filters" those shares functionality with "in-transit

services" as claimed used by sending trading partner/ or by receiving trading partner in order to

be able to route messages the appropriated recipients: [0170]; [0179]; [0270]-[0273]; [0081])

Regarding to claims 29 and 56:

Stewar - Ghoneimy discloses a method as discuss in claims 1 and 52, which includes

delivering includes delivering said message to said in-transit service for one of a data

transformation operation, an enrichment operation, a cross-reference id mapping operation, a

filtering operation, and a credit scoring operation (Ghoneimy: [0039]; [0101])

Regarding to claim 49:

Stewar - Ghoneimy discloses a method as discuss in claim 32, which includes said

message routing network provides a transport level messaging service (Ghoneimy: [0035])

Regarding to claims 53 and 67:

Stewar - Ghoneimy discloses a method as discuss in claims 52 and 64, which includes

service provides a data transformation service: (Ghoneimy discloses the workflow engine

including adapters acts as a converter supports communications between different type of

devices: [0039]; [0010]; [0101])

Regarding to claims 54 and 68:

Stewar - Ghoneimy discloses a method as discuss in claims 52 and 64, which includes

service provides a data enrichment service (Ghoneimy: [0101])

Regarding to claims 55 and 69:

Stewar - Ghoneimy discloses a method as discuss in claims 52 and 64, which includes

service provides a cross-reference service (Ghoneimy: [0049]; [0204])

Regarding to claim 65:

Stewar - Ghoneimy discloses a method as discuss in claim 64, which includes a transport

level messaging service: (Ghoneimy: [0090]).

Regarding to claim 66:

Stewar - Ghoneimy discloses a method as discuss in claim 65, which includes said

message routing network is implemented on a public network (Ghoneimy: [0030]; [0059])

Regarding claims 9 and 75:

Stewar - Ghoneimy discloses a method as discuss in claims 1 and 64, which includes the

simple object access protocol (SOAP): (Stewar: [0338])

Regarding to claims 31, 50-51, 60-62, 70, 74 and 76-77:

Those claims are rejected for the same reasons as rejection claim 1

Claims 57 and 71 are rejected under 35 U.S.C 103(a) as being un-patentable over

Stewart-Ghoneimy in view of Heuring (U.S. 6,965,878)

Regarding to claims 57 and 71:

Stewart-Ghoneimy discloses the invention substantially as disclosed in claims 52 and 64,

but does not explicitly teach a credit scoring service

In analogous art, Heuring discloses credit scoring system for business-to-business

transaction: (abstract)

Thus, it would have been obvious to a person of ordinary skill in the art at the time the

invention was made to combine Heuring's ideas of credit scoring with Stewart-Ghoneimy's

system in order to provide an efficient business communication network, see (Heuring: column

1, lines 10-15)

Claims 58-59 and 72-73 are rejected under 35 U.S.C 103(a) as being un-patentable

over Stewart-Ghoneimy in view of Owens et al. (U.S. 6,633,630)

Regarding to claims 58-59 and 72-73:

Stewart-Ghoneimy discloses the invention substantially as disclosed in claims 52 and 64,

but does not explicitly teach a service is selected from said directory of services by a recipient

service

In analogous art, Owens discloses messages are sent and received accordance with preferences of sender and recipients: (abstract)

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Owens's ideas of sending and receiving a messages accordance with preferences of sender and recipients with Stewart-Ghoneimy's system in order to provide flexibilities and convenient for communication system users, see (Owens: column 2, lines 9-19)

The prior arts made of records and not relied upon are considered pertinent to applicant's disclosure. The following patents and publications are cited to further show the state of the art with respect to "System and method for routing messages between applications": 20020019797; 20020128946; 200300118808

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
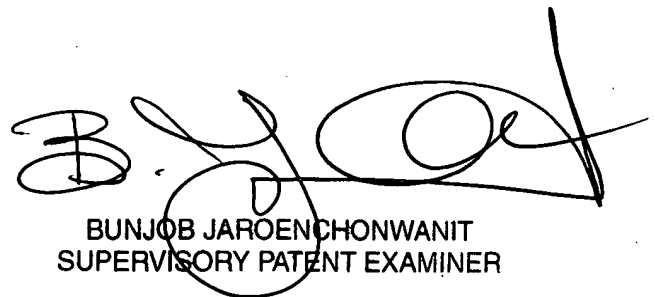
Conclusions

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan-Dai Thi Truong whose telephone number is 571-272-7959. The examiner can normally be reached on Monday- Friday from 8:30am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob A. Jaroenchonwanit can be reached on 571-272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

04/13/2007

BUNJOB JAROENCHONWANIT
SUPERVISORY PATENT EXAMINER